#### IN THE CLAIMS:

Please replace the previous claims with the following claims:

 (currently amended) A method of distributing and sharing processing loads and increasing fault tolerance between provider equipment and subscriber equipment of an interactive information distribution system, comprising the steps of:

receiving, at a head-end, a request for video information from said subscriber equipment;

executing a video session from at least one of a plurality of managing modules on a primary head-end controller at said head-end;

dedicating, at said head-end, at least one secondary head-end controller respectively having said at least one managing module as a resource for executing said video session, wherein said executing said video session comprises concurrently executing session-state processing session-state data of said video session on using a at least one distributed managing module associated with each of said primary head-end controller and said at least one secondary head-end controller;

storing said session-state data from said executed video session on at least one storage device; and

streaming, from a stream server, said video information to said requesting subscriber equipment during a normal mode of operation.

- (canceled)
- (previously presented) The method of claim 1, wherein said executing said video session further comprises executing said video session on at least one non-distributed managing module associated with said primary head-end controller.
- (original) The method of claim 3, comprising the steps of:
   processing said session-state data through said at least one distributed
   managing module concurrently on said primary head-end controller and said at least

09/458,897 Page 3 of 12

one secondary head-end controller, wherein said at least one distributed managing module on said primary head-end controller and said at least one secondary head-end controller is in an active mode; and

processing said session-state data from said at least one non-distributed managing module on said primary head-end controller, wherein said at least one non-distributed managing module on said primary head-end controller is in an active mode, and wherein said at least one non-distributed managing module on said secondary head-end controller is in a standby mode.

- (original) The method of claim 4, a method comprising the steps of:
   processing said session-state data produced by said primary head-end controller
   via said at least one secondary head-end controller in a failure mode of operation,
   wherein said primary head-end controller becomes inoperative.
- 6. (Original) The method of claim 5, comprising the steps of:
  streaming video information from a stream server to an access controller in said
  normal mode of operation, wherein said primary head-end controller manages said
  video session between said stream server and at least one access controller; and
  streaming video information from said stream server to said access controller in
  said failure mode of operation, wherein said secondary head-end controller manages
  said video session between said stream server and said access controller.
- (previously presented) The method of claim 1, comprising the steps of: storing said session-state data produced by said primary head-end controller on at least one non-volatile storage device coupled to said primary head-end controller;

storing said session-state data produced by said at least one secondary headend controller on at least one non-volatile storage device coupled to said primary headend controller. 8. (currently amended) The method of claim 7, wherein said at least one storage device comprises a plurality of storage devices, said method further comprising the step of:

replicating said stored session-state data from one of said plurality of storage devices coupled to said primary head-end controller, to each of the remaining storage devices of said plurality of storage devices coupled to said at least one secondary head-end controller; and

wherein said at least one secondary head-end controller retrieves said sessionstate data executed processed by said managing modules of said primary head-end controller for continuing said video session with said subscriber equipment.

- 9. (previously presented) The method of claim 1, further comprising the steps of: storing said session-state data produced by said primary head-end controller on a volatile memory device coupled to said primary head-end controller; and storing said session-state data produced by said at least one secondary head-end controller on said volatile memory device coupled to said primary head-end controller.
- 10. (currently amended) The method of claim 9, comprising the step of: replicating said stored session-state data from said volatile memory device coupled to said primary head-end controller, to at least one volatile memory device coupled to said at least one secondary head-end controller; and

wherein said at least one secondary head-end controller retrieves said sessionstate data executed <u>processed</u> by said managing modules of said primary head-end controller for continuing said video session with said subscriber equipment.

- 11. (currently amended) In an interactive video distribution system including information provider equipment and subscriber equipment, apparatus comprising:
  - a stream server;
- a plurality of head-end controllers, coupled to said stream server, for managing a video session at a head-end, each head-end controller comprising a plurality of

09/458,897 Page 5 of 12

managing modules for executing session state-data of said video session, wherein at least one of said managing modules is a distributed managing module and processes session stage session-state data of said video session through using at least two of said plurality of both primary head end controller and said at least one secondary head-end controllers; and

a plurality of access controllers, coupled to said plurality of head-end controllers, for interacting with said subscriber equipment during said video session to responsively provide video information to said subscriber equipment upon a request for video information from said subscriber equipment.

12. (previously presented) The apparatus of claim 11, wherein each head-end controller of said plurality of head-end controllers further comprises:

a processor for processing session-state data produced by said plurality of managing modules; and

memory devices, coupled to said processor, for temporarily storing said sessionstate data.

- 13. (original) The apparatus of claim 12 wherein said plurality of head-end controllers comprises a primary head-end controller and at least one secondary head-end controller.
- 14. (original) The apparatus of claim 13, wherein:

in a normal mode of operation, said primary head-end controller interacts with said stream server to provide said video information to said subscriber equipment, and said at least one secondary head-end controller remains in a standby mode; and

in a failure mode of operation, said primary head-end controller is inoperative, and said at least one secondary head-end controller interacts with said stream server to provide video information to said subscriber equipment.

15. (previously presented) The apparatus of claim 14, wherein said plurality of managing modules comprise:

09/458,897 Page 6 of 12

at least one non-distributed managing module, for processing session-state data by said primary head-end controller.

### 16. (original) The apparatus of claim 15, wherein:

in a failure mode of operation, a portion of said plurality of access controllers coupled to said inoperable primary head-end controller interface with said secondary head-end controller, whereby all of said plurality of access controllers are interfacing with said at least one secondary head-end controller, to responsively interact with said subscriber equipment.

### 17. (original) The apparatus of claim 16, wherein:

in a failure mode of operation, said at least one distributed managing module and said at least one non-distributed managing module executes said video session through said at least one secondary head-end controller.

## (original) The apparatus of claim 17 further comprising:

a centrally networked storage device coupled to said primary head-end controller and said at least one secondary head-end controller, for centrally storing said sessionstate data produced by said plurality of managing modules; and

in said failure mode of operation, said at least one secondary head-end controller retrieves said session-state data stored on said centrally networked storage device by said primary head-end controller, for continued interaction with said stream server to provide said video information to said subscriber equipment.

## 19. (original) The apparatus of claim 17, further comprising:

a plurality of local storage devices, coupled to said primary head-end controller and said at least one secondary head-end controller, for locally storing said session-state data produced by said plurality of managing modules.

### 20. (original) The apparatus of claim 19, wherein:

09/458,897 Page 7 of 12

said session-state data is replicated from one of said plurality of local storage devices coupled to said primary head-end controller, and stored on the remaining plurality of local storage devices of said at least one secondary head-end controller.

# 21. (previously presented) The apparatus of claim 20, wherein:

in a failure mode of operation, said at least one secondary head-end controller retrieves said replicated session-state data stored on said remaining plurality of storage devices, for continued interaction with said stream server to provide said video information to said subscriber equipment.